The Molecules of Life:

     1. Carbohydrates

         -Organic compounds composed of C,H, and O.

         -Function=provide your body with energy!

            ex) pasta, breads, (sugars)

                 a. Monosaccharide

                        -monomer-1 molecule (simple)

                       -(simple sugars)- contain C,H, and O in a 1:2:1

                        - most common- Frutose (sweetest), galactose (milk), and glucose (fuel for cells)

                       -isomer- same chemical formula but different structural formula

                b. Disaccharide

                      -when two monosaccharides combine in condensation reaction to form double sugar

                      - Fructose+glucose= sucrose (table sugar)

                      - Condensation/dehydration: link smaller molecule toogether to make a larger molecule

                c. Polysaccharide

                      -complex molecule composed of 3 or more monosaccharides

                            1). Glycogen consists of hundreds of glucose molecules!

                            2). STARCH...plant cell walls= Starch

                                     polymer ex): starch, glycogen, cellucose

                            3). Hydrolysis- water is added to break a polymer into a monomer

     2. Proteins

**3. Lipids**

     4. Nucliec Acids